L Number	Hits	Search Text	DB	Time stamp
-	1636	inquir$3 near3 command$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/24 17:52
-	45	opcode$1 same (inquir$3 near3 command$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/24 18:39
-	269	opcode$1 with support$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/24 18:40
-	33	(inquir$3 near3 command$1) and (opcode$1 with support$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/24 18:40
-	0	((inquir$3 near3 command$1) and (opcode$1 with support$3)) not (opcode$1 same (inquir$3 near3 command$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/24 18:44
-	2	20030070028.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/24 18:45
-	15	(target$1 or slave$1) same (opcode$1 with support$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/24 18:50
-	0	EP0812092A2.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/24 18:50
-	0	EP0812092.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/24 18:50
-	212791	sato.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/24 18:51
-	223	"1394" and sato.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/24 18:51
-	44	"1394" and sato.in.	EPO; DERWENT	2004/06/24 19:20
-	37	"1394" and sato.in.	JPO	2004/06/24 19:20

US-PAT-NO: 6751687

DOCUMENT-IDENTIFIER: US 6751687 B1

TITLE: Method of controlling device, transmission device, and
                    medium

DATE-ISSUED: June 15, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sato; Makoto	Tokyo	N/A	N/A	JP
Takaku; Yoshiyuki	Tokyo	N/A	N/A	JP
Kaibuki; Futoshi	Tokyo	N/A	N/A	JP
Horiguchi; Mari	Kanagawa	N/A	N/A	JP
Sato; Naoyuki	Tokyo	N/A	N/A	JP
Kageyama; Yuichi	Kanagawa	N/A	N/A	JP

US-CL-CURRENT: 710/62, 348/734 , 700/257 , 710/5 , 710/8

ABSTRACT:

   Between a first equipment and a second equipment connected to a
predetermined bus line, it is arranged that data for setting, etc. on input
selection in the first equipment is instructed from the second equipment in the
form of command having a predetermined format through the bus line, thus
allowing an independent remote control to be performed between the first
equipment and the second equipment. Moreover, data on input selection in the
first equipment is transmitted to the second equipment, so that, for example,
the remote control of the input selection in the first equipment linking with
the operation of the second equipment will be performed satisfactorily.

6 Claims, 38 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 26

---------- KWIC ---------

Detailed Description Text - DETX (51):
   CTS indicates a command set ID. For AV/C command set, CTS="0000". The
field of ctype/response indicates a functional classification of the command if
the packet is the command, and indicates a processed result of the command if
the packet is the response. The command is roughly divided into four kinds.
They are defined as (1) a command for controlling functions from the outside
(CONTROL), (2) a command for inquiring the status from the outside (STATUS),
(3) a command for inquiring from the outside whether the control command is
supported or not (GENERAL INQUIRY (whether opcode and operands are supported or
not)), (4) a command for requiring to notify a change in status to the outside
(NOTIFY).

US-PAT-NO: 6453364

DOCUMENT-IDENTIFIER: US 6453364 B1

TITLE: Information reproducing apparatus, information
                       recording/reproducing apparatus and information
                       selectively outputting apparatus, and electronic
                       apparatus system thereof

DATE-ISSUED: September 17, 2002

INVENTOR-INFORMATION:
NAME   CITY   STATE   ZIP CODE
COUNTRY
Hara; Mitsuhiko   Kanagawa-ken   N/A   N/A   JP

US-CL-CURRENT: 710/16, 386/123 , 386/124 , 386/97 , 710/29

ABSTRACT:

    The control section 42 of the first VCR 2 discriminates information
reproduced from a magnetic tape whether the information is analog information
or digital information. In case of reproducing analog information, the
recording/reproducing section 43 outputs reproduced information to the analog
signal terminal 53. In case of reproducing digital information, the control
section 42 controls the recording/reproducing section 43 so as to output
reproduced information to the digital signal terminal 51 through the digital
interface section 41.

5 Claims, 15 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 8

---------- KWIC ---------

Detailed Description Text - DETX (20):
    An inquiry about a type of medium at the step S11 in FIG. 4 is actually
performed by sending a status command of medium information as shown in FIG.
6(a) to the first VCR 2 or the second VCR 3. The status command comprises 8
bits of operation code (**opcode**) indicating a type of command and two operands
[0] and [1]. In FIG. 6(a), "msb" and "lsb" mean "most significant bit" and
"least significant bit" respectively. A suffix "h" of "DAh" is attached so as
to indicate that a "DA" is in hexadecimal. The operation code "DAh" represents
that its command or response is related to medium information. The operands
[0] and [1] of the status command of medium information are assigned at 7Fh and
they are a **command, which inquire** medium information into the first VCR 2 or
the second VCR 3.

US-PAT-NO: 6292846

DOCUMENT-IDENTIFIER: US 6292846 B1

TITLE: Interactive data transmission system including
                        information recording and/or reproduction apparatus
                        connected to an electronic control apparatus via a bus

DATE-ISSUED: September 18, 2001

INVENTOR-INFORMATION:
NAME   CITY   STATE   ZIP CODE
COUNTRY
Hara; Mitsuhiko   Yokohama   N/A   N/A   JP

Okauchi; Takeshi   Chigasaki   N/A   N/A   JP

US-CL-CURRENT: 710/5, 360/79 , 386/124 , 386/40 , 710/58 , 710/69

ABSTRACT:

    A control apparatus and a VTR are connected via an IEEE1394 interface bus.
The control apparatus transmits a command to the VTR via the bus to designate a
recording mode and a recording region of input information recorded on a
magnetic tape loaded in the VTR. In response to this command, the VTR
interprets the content of the received command and performs a recording
operation in accordance with the interpreted content. Furthermore, the control
apparatus transmits a recording time status command to an information transport
apparatus to inquire a recording time of a specific information recorded on the
magnetic tape. The information transport apparatus notifies the control
apparatus of the recording time. The control apparatus calculates an expected
information transport end time based on the information transport start time
and the recording time of the specific information notified from the
information transport apparatus. Then, the control apparatus starts
transmitting a transport state command from a time earlier a predetermined time
than the expected information transport end time. This transport state command
inquires the operating condition of the information transport apparatus.

11 Claims, 38 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 18

---------- KWIC ---------

Detailed Description Text - DETX (8):
    In a step Si of FIG. 3, the control apparatus 1 processes the media
information command including a type of a cassette loaded in the VTR 2, a tape
grade, and a setting of the recording prohibit region. More specifically, the
control apparatus 1 transmits a media information status command and waits for
a response from the VTR 2. The media information status command, whose format
is shown in FIG. 6A, comprises an 8-bit operation code (opcode) and two
operands (operand [0] and operand [1]). In FIGS. 6A and 6B, "msb" and "lsb"
stand for the most significant bit and the least significant bit, respectively.
Furthermore, in this media information status command, "DA" is suffixed by "h"
to indicate that "DA" is expressed by hexadecimal number. The operation code
"DAh" indicates as a whole that its command or response relates to the media
information. The operands [0] and [1] are both set to 7 Fh representing a
command inquiring the media information to the VTR 2.

NAME	CITY	STATE	COUNTRY
RULE-47			
Horiguchi, Mari	Kanagawa		JP
Sato, Makoto	Tokyo		JP

ABSTRACT:

The problem is to facilitate alteration of a transmission line in the case
where the target device establishes a connection on the bus and thereby secures
a transmission line in order to transmit stream data in a network of the IEEE
1394 scheme or the like. Stream data outputted from an output device 1
connected to a predetermined network is received by an input device 2. When
the output device or a different device has sent an order for setting so that
output data of the output device 1 may be inputted to a data input section 2b
of the input device 2, the input device 2 conducts input setting based on the
order. In addition, when the device which sent the order has sent an order to
cancel the input setting, the input device 2 conducts processing of canceling
the input setting.

---------- KWIC ---------

Detail Description Paragraph - DETX (27):
   [0053] Commands are broadly divided into four kinds: (1) commands (CONTROL)
for controlling the function from the outside; (2) commands (STATUS) for
inquiring about the state from the outside; (3) commands for inquiring whether
support of a control command is present, from the outside (GENERAL INQUIRY
(whether support of an opcode is present) and SPECIFIC INQUIRY (whether support
of an opcode and operands are present)); and (4) commands (NOTIFY) for
requesting the notice of a state change to the outside.

PGPUB-DOCUMENT-NUMBER: 20010024445

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010024445 A1

TITLE: Communication system, communication device and
                          communication method

PUBLICATION-DATE: September 27, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
RULE-47			
Noda, Takuro	Tokyo		JP
Aoki, Yukihiko	Tokyo		JP

US-CL-CURRENT: 370/402, 370/468

ABSTRACT:

There are provided a communication system, a communication device and a
communication method that operate with a reduced load when exchanging data
streams by way of a network comprising a serial bus. A communication system
according to the invention comprises a serial bus 4 for transmitting data, a
magneto-optical disc device 1 and/or an optical device 2 for transmitting data
to the serial bus 4 as a periodical isochronous packet and an amplifier 3
adapted to monitor the serial bus 4 for the transmission of an isochronous
packet from the magneto-optical disc device 1 or the optical device 2 and start
receiving the isochronous packet upon detecting the transmission of an
isochronous packet that is available to it.

---------- KWIC ---------

Detail Description Paragraph - DETX (130):
    [0239] In FIG. 33, CTS is the ID of the command set, which is equal to
"0000" in the case of an AV/C command set. If the packet contains a command,
the field of ctype/response shows the category of the function of the command.
If, on the other, the packet contains a response, the field of ctype/response
shows the result of processing the command. Roughly, four types of commands
are defined and they include (1) commands (CONTROL) for controlling the
functional feature from outside, (2) command (STATUS) for inquiring the status
of a specific functional feature from outside, (3) commands (GENERAL INQUIRY)
for inquiring the presence or absence of support for opcode and those (SPECIFIC
INQUIRY) for inquiring the presence or absence of support for opcode and
operands) and (4) commands (NOTIFY) for requesting a notification on the change
in the status from outisde.

PGPUB-DOCUMENT-NUMBER: 20010028645

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010028645 A1

TITLE: Apparatus control method and transmission device

PUBLICATION-DATE: October 11, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
RULE-47			
Horiguchi, Mari	Kanagawa		JP
Sato, Makoto	Tokyo		JP

US-CL-CURRENT: 370/362, 370/419

ABSTRACT:

An apparatus controlling method for performing control between apparatuses
connected to a predetermined bus line is provided. In data transmission
between a first apparatus and a second apparatus, presetting of settings for
inputting or outputting of data in the first apparatus is directed by a
transmission of a command in a predetermined format via the bus line. Further,
an identification data unique to the second apparatus is transmitted upon the
transmission of the directing command, and the first apparatus stores the
transmitted unique identification data when performing the presetting in
accordance with the command.

---------- KWIC ---------

Detail Description Paragraph - DETX (15):
    [0044] The commands are roughly classified into four kinds. Specifically,
the following four kinds are defined: (1) command for controlling a function
from outside (CONTROL); (2) **command for inquiring** a status from outside
(STATUS); (3) **command for inquiring** presence of support to a control **command
from outside (GENERAL INQUIRY** (presence or absence of **opcode** support) and
SPECIFIC INQUIRY (presence or absence of **opcode** and operands support)); (4)
command for requesting notification of status change to outside (NOTIFY).

PGPUB-DOCUMENT-NUMBER: 20010028655

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: ·   US 20010028655 A1

TITLE: Communication control method and communication control apparatus

PUBLICATION-DATE: October 11, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
RULE-47			
Noda, Takuro	Tokyo		JP
Aoki, Yukihiko	Tokyo		JP

US-CL-CURRENT: 370/402, 370/419

ABSTRACT:

A communication control method and a communication control apparatus are
provided for preventing truncation at the beginning upon receipt of data, for
example, between devices interconnected through a bus line in conformity to the
IEEE 1394 standard. In a communication system 100 which comprises an output
device 3 for outputting stream data through a data bus 5, which includes
predetermined connecting means, an input device 4 for acquiring the stream data
from the output device 3 through the data bus 5, and a communication controller
1 for controlling the output device 3 and the input device 4, all of which are
interconnected through the data bus 5, the communication controller 1 requests
the output device 3 and the input device 4 to start communicating stream data,
forces the input device 4, which has been requested to start the communication,
to notify the output device 3 that the input device 4 has completed a
preparation for receiving the stream data, and forces the output device 3 to
transmit the stream data to the input device 4 through the data bus 5 when the
completion of preparation for the reception is notified to the output device 3,
thereby making it possible to prevent truncation at the beginning upon
receiving the stream data at the input device.

---------- KWIC ---------

Detail Description Paragraph - DETX (18):
   [0044] The functional classifications for a command described in the
ctype/response field is generally divided into four types which are defined as
follows: a command (CONTROL) for controlling a function from the outside (a
node connected to the IEEE 1394 serial data bus); a **command (STATUS) for
inquiring the status from the outside; commands for inquiring** the presence or
absence of a support for a control **command from the outside (GENERAL INQUIRY**
(for inquiring presence or absence of a support for an **opcode**) and SPECIFIC
INQUIRY (for inquiring presence or absence of a support for an opcode and
operands); and a command (NOTIFY) for requesting notification of a change in
status to the outside.

PGPUB-DOCUMENT-NUMBER: 20010032276

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010032276 A1

TITLE: Transmission method, transmission system, input unit,
                          output unit and transmission control unit

PUBLICATION-DATE: October 18, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
RULE-47			
Igarashi, Tatsuya	Tokyo		JP

US-CL-CURRENT: 710/3

ABSTRACT:

To enable setting for transmission through network such as IEEE1394 system with
input plugs freely, when transmitting data obtained in an output device
connected to a predetermined network to the network from a predetermined output
plug of the output device and receiving that data through a predetermined input
plug of an input device connected to the network, the output device confirms an
address of a buffer for storing data obtained in the input plug of the input
device temporarily prior to start of data transmission, according to an address
set in a predetermined pointer within a register constituting the input plug
and then, transmits data from the output device to the confirmed address.

---------- KWIC ---------

Detail Description Paragraph - DETX (23):
    [0054] The command is largely defined in four types, that is, (1) command
CONTROL for controlling the function from the outside, (2) command STATUS for
inquiring for condition from the outside, (3) command GENERAL INQUIRY
(absence/presence of opcode support) and SPECIFIC INQUIRY (absence/presence of
opcode and operands support) for inquiring for absence/presence of control
command support from outside, and (4) command NOTIFY which requests to notify
the outside of a condition change.

PGPUB-DOCUMENT-NUMBER: 20010032277

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010032277 A1

TITLE: Transmission method, transmission system, transmission
                         control unit and input unit

PUBLICATION-DATE: October 18, 2001

INVENTOR-INFORMATION:
NAME	CITY	STATE	COUNTRY
RULE-47			
Igarashi, Tatsuya	Tokyo		JP
Endo, Atsushi	Tokyo		JP
Ihara, Yushi	Kanagawa		JP

US-CL-CURRENT: 710/19

ABSTRACT:

Being capable of avoiding a problem due to unmatching of versions among devices
upon data transmission through a network such as IEEE1394 type. In case where
data obtained in an output device connected to a predetermined network is
transmitted from the output device to the network and received by an input
device connected to the network, the output device or a controller for
controlling transmission on the network sends a first instruction for inquiring
about the version of a function set in the input device and recognizes the
version set in the input device through return transmission corresponding to
the first instruction. If the version of the confirmed input device is lower
than the version set in the output device or controller, a second instruction
for changing the version to be set in the input device is transmitted so as to
change the version and then, transmission of data from the output device is
started.

---------- KWIC ---------

Detail Description Paragraph - DETX (24):
   [0052] The command is largely defined in four types, that is, (1) command
(CONTROL) for controlling the function from outside, (2) command (STATUS) for
inquiry for condition from outside, (3) command (GENERAL INQUIRY
(absence/presence of opcode support) and SPECIFIC INQUIRY (absence/presence of
opcode and operands support)) for inquiry for absence/presence of control
command support from outside, and (4) command (NOTIFY) which requests to notify
outside of a condition change.

Detail Description Paragraph - DETX (33):
   [0061] FIG. 9 is a diagram showing data structure of the command for inquiry
about the version and the response to that command. Data shown in FIG. 9 is
disposed between opcode and operand in data block within a packet of the AV/C
command shown in FIG. 7. The left side of this diagram shows the structure of
command while the right side thereof shows the structure of response to the
command. An arrow indicating the left side in the response side of this
diagram indicates a case where data transmitted with a command is disposed just
as it is and sent back. In a following description of data examples, all the
values are expressed by a hexadecimal number (a value indicating a digit with a
hexadecimal value such as 0, 1, . . . 9, A, B, C, D, E, F.

Detail Description Paragraph - DETX (34):
    [0062] Because this **command is a command for inquiring** a mating device about condition thereof, its command type is a status (STATUS). Data indicating that it is VERSION (version) command is disposed in **opcode** section indicating the detail of the command. A particular predetermined value (maximum value FF of two-digit hexadecimal value) is disposed in sections of operand[0]-[32].

Detail Description Paragraph - DETX (35):
    [0063] In case of answering the inquiry about the version through a response on the side receiving this command, the response type is accept (ACCEPTED). Then, VERSION (version) data is sent back in **opcode** section. Version information (version information) data is disposed in operand[0] section. This version information data is data about a set version or version information. Implementation profile ID (implementation profile ID) called profile ID is disposed in operand [1]-[32] sections, indicating a detail of function which can be executed by the version set in this device. If an **inquiry about the command** cannot be answered, the response type is, for example, reject (REJECTED) indicating rejection.

PGPUB-DOCUMENT-NUMBER: 20010047440

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010047440 A1

TITLE: Information processing device, control device,
                         information processing system, and methods thereof

PUBLICATION-DATE: November 29, 2001

INVENTOR-INFORMATION:
NAME   CITY   STATE   COUNTRY
RULE-47
Takaku, Yoshiyuki   Tokyo   JP

Horiguchi, Mari   Tokyo   JP

US-CL-CURRENT: 710/62

ABSTRACT:

In the information processing system, the user can easily grasp the names of
terminals that the main information processing device possesses. By
transmitting the name data showing each name of multiple terminals 13, 14, 15
that the main information processing device 4 has to the control device 2 via
the predetermined communication means 8, 11, and displaying each name of each
terminal that said name data shows on the display means 33 of the control
device 2, the user can easily grasp names of terminals that the main
information processing device 4 has.

---------- KWIC ---------

Detail Description Paragraph - DETX (35):
    [0072] CTS shows ID of the command set. In the AV/C command set,
CTS="0000". The ctype/response field shows the function classification of the
command when the packet is command. And when the packet is response, it shows
the processing result of the command. The command is roughly classified into
four(4) types: i.e., (1) the command to control the function from outside
(CONTROL), (2) the command to inquire the condition from outside (STATUS), (3)
the command to inquire the existence or non-existence of support of the control
command from outside (GENERAL INQUIRY (existence or non-existence of support of
opcode) and SPECIFIC INQUIRY (existence or non-existence of support of opcode
and operands)), and (4) the command to request to notify the change of
condition (NOTIFY).

PGPUB-DOCUMENT-NUMBER: 20020004711

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020004711 A1

TITLE: Control device and control method

PUBLICATION-DATE: January 10, 2002

INVENTOR-INFORMATION:
NAME   CITY   STATE   COUNTRY
RULE-47
Sato, Makoto   Tokyo   JP

Komuro, Teruyoshi   Tokyo   JP

US-CL-CURRENT: 702/188

ABSTRACT:

A CPU 10 of a receiver 3 that is a control device acquires a DCM contained in a
configuration ROM of a digital AV device, and stores such DCM in a RAM 12 when
the digital AV device that is a device targeted for control is connected to an
IEEE 1394 bus 2. Further, the CPU 10 acquires application software from a
digital satellite broadcast or Internet and the like, and stores the software
based on identification information (ID) for identifying application software
utilizing the DCM and acquisition site information that exist at the DCM or
configuration ROM and any other portion. In this way, at the receiver 3,
application software is made available automatically. That is, application
software utilizing control information (DCM) for controlling a device targeted
for control is made available automatically.

---------- KWIC ---------

Detail Description Paragraph - DETX (32):
    [0073] The CTS shows the command set ID, wherein CTS="0000" in the AV/C
command set. The ctype/response field shows the function sort of the command
when the packet is a command, while shows the result of command processing when
the packet is a response. The command is roughly classified into four
categories as follows: (1) a command for controlling the function from the
outside (CONTROL); (2) a command for inquiring the state from the outside
(STATUS); (3) a command for inquiring whether or not there is a support for
control command from the outside (GENERAL INQUIRY for inquiring whether or not
there is a support for opcode, and SPECIFIC INQUIRY for inquiring whether or
not there is a support for opcode and operands); and (4) a command for
requesting to notify the change in the state to the outside (NOTIFY).

PGPUB-DOCUMENT-NUMBER: 20020010824

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020010824 A1

TITLE: Electronic equipment and method for processing digital
                         serial data at bus initialization phase in interface
                         unit

PUBLICATION-DATE: January 24, 2002

INVENTOR-INFORMATION:
NAME   CITY   STATE   COUNTRY
RULE-47
Okawa, Sumihiro   Kanagawa   JP

Miura, Kiyoshi   Kanagawa   JP

US-CL-CURRENT: 710/305

ABSTRACT:

In the bus initialization phase, the state is transferred to the reset start
state (i.e., R1 state) first, and a bus reset signal is sent to all the
connected partners for a predetermined period of time determined by the
reset_time (ranging from 1.26 .function.m at the shortest to 1.40 .function.m
at the longest). When it is acknowledged that bus reset signals have been
received from all the connected partners and a predetermined period of time has
elapsed, the state is transferred to the reset wait state (R1 state). In this
arrangement, there is no fear that an IDLE signal received in a reset wait
state from a partner connected by use of a long cable will result in an
erroneous transfer to a tree identification phase, and the bus reset signal
will be received from the connected partner at the tree identification phase so
as to return again to the R0 state at the bus initialization phase.

---------- KWIC ---------

Detail Description Paragraph - DETX (40):
    [0099] The CTS field shows the command set ID, wherein CTS="0000" for the
AV/C command set. The ctype/response field indicates the function
classification of a command when the packet is a command, and indicates the
results of command processing when the packet is a response. Commands are
roughly classified into four categories as follows: (1) a command for
controlling a function from the outside (CONTROL); (2) a command for inquiring
as to the state from the outside (STATUS); (3) a command for inquiring as to
whether there is support for a control command from the outside (GENERAL
INQUIRY for inquiring as to whether there is support for opcode, and SPECIFIC
INQUIRY for inquiring as to whether there is support for opcode and operands);
and (4) a command for requesting notification to the outside as to a change in
state (NOTIFY).

PGPUB-DOCUMENT-NUMBER: 20020041602

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020041602 A1

TITLE: Communication control method, communication system, and communication apparatus

PUBLICATION-DATE: April 11, 2002

INVENTOR-INFORMATION:

NAME RULE-47	CITY	STATE	COUNTRY
Kageyama, Yuichi	Kanagawa		JP
Sato, Naoyuki	Tokyo		JP

US-CL-CURRENT: 370/426, 370/465

ABSTRACT:

Data is mutually exchanged between a plurality of communication apparatuses even when requests from plural devices to a specific apparatus are presented simultaneously in a network such as the IEEE1394 system. A first command is sent from a first communication apparatus to a second communication apparatus which notifies the first apparatus that a specified state change will be executed by the second apparatus. When that state change is generated, the first apparatus is so notified and, in addition, each communication apparatus in the network is notified that the second communication apparatus is ready to accept the first command. Moreover, when instructing the second apparatus to notify the first communication apparatus that a first state change will be executed, if the second communication apparatus is waiting to notify another communication apparatus of a second state change, the second apparatus reserves notification of the first state change, and after the occurrence of the second state change, the reserved first state change is monitored, and when that first state change is generated, the first communication apparatus is so notified thereof.

---------- KWIC ---------

Detail Description Paragraph - DETX (62):
    [0115] The CTS shows the ID of command set, and CTS=0000 in the AV/C command set. The field of ctype/response shows the function classification of command when the packet is a command, and shows the processing result of the command when the packet is a response. Commands are roughly classified into four types: (1) command for controlling the function from the outside (CONTROL), (2) command for inquiring status from the outside (STATUS), (3) command for inquiring presence or absence of support of control command from the outside (GENERAL INQUIRY: presence or absence of support of opcode, and SPECIFIC INQUIRY: presence or absence of support of opcode and operands), and (4) command for requesting to notify status change to the outside (NOTIFY).

INVENTOR-INFORMATION:
NAME   CITY   STATE   COUNTRY
RULE-47
Kato, Junji   Tokyo   JP

ABSTRACT:

A power consumption required for communication between communication devices
connected to a network constituted by an IEEE 1394 bus line is reduced. When
communication in a synchronous communication mode and communication in an
asynchronous communication mode can be performed, a power supply of a part
(110) for a communication process in a synchronous communication mode is
controlled independently of a power supply of a part (105, 106) for executing a
communication process in an asynchronous communication mode. The power supply
of the part (105, 106) for executing the communication process in the
asynchronous communication mode is controlled independently of the power supply
of the part (110) for executing the communication process in the synchronous
communication mode.

---------- KWIC ---------

Detail Description Paragraph - DETX (63):
    [0105] CTS represents the ID of a command set, and satisfies CTS="0000" in
the AV/C command set. The field of ctype/response represents a function
classification when the packet is a command, and represents a process result of
the command when the packet is a response. Commands are roughly classified
into four types, i.e., (1) a command (CONTROL) for controlling a function from
the outside, (2) a command (STATUS) for inquiring about a state from the
outside, (3) a command (GENERAL INQUIRY (the presence/absence of support of
opcode) and SPECIFIC INQUIRY (the presence/absence of support of opcode and
operands), and (4) a command (NOTIFY) for requiring that a change in state is
notified to the outside.

INVENTOR-INFORMATION:
NAME   CITY   STATE   COUNTRY
RULE-47
Kageyama, Yuichi   Kanagawa   JP

ABSTRACT:

An object of the present invention is to avoid problems in the network provided
e.g. by the IEEE 1394, associated with making a notice following a request from
a particular device.
A first communications device sends a first command to a second communications
device in the network, thereby giving instruction for notifying to the first
communications device on a predefined status change performed under control of
the second communications device. Then, the second communications device
notifies to the first communications device on the predefined status change
only if the status change has taken place within a predetermined time period
measured from a time of reception of the first command, and the notice is not
made after the time period.

---------- KWIC ---------

Detail Description Paragraph - DETX (62):
    [0140] The CTS indicates an ID of the command set. In the AV/C command set,
the CTS is given a value "0000". A field "ctype/response" indicates a function
classification of the command if the packet is a command, and if the packet is
a response, indicates a result of processing the command. The commands are
roughly classified into four kinds: (1) command for controlling a function from
outside (CONTROL); (2) command for inquiring a status from outside (STATUS);
(3) command for inquiring presence of support of a control command (GENERAL
INQUIRY (presence or absence of opcode support)) and (SPECIFIC INQUIRY
(presence or absence of opcode and operand support)); and (4) command for
requesting a notice on a status change to outside (NOTIFY).

INVENTOR-INFORMATION:
NAME   CITY   STATE   COUNTRY
RULE-47
Aoki, Yukihiko   Tokyo   JP

Takenaka, Yoshiaki   Tokyo   JP

Miura, Haruyuki   Kanagawa   JP

Ohashi, Shinobu   Ibaraki   JP

ABSTRACT:

A problem is to propose a network error display apparatus and an error
detection display method capable of displaying a user's measure intelligibly
while making a distinction between an error of the receiving system on the
network and an error within a device. A network error display apparatus
includes: an IEEE 1394 signal processing section (4) for detecting an error of
a loop state in an IEEE 1394 network, detecting a link state, detecting an
error which occurs in such a state that there is a link for the network or an
error which occurs in such a state that there is no link for the network; a
main body processing section (5) for storing messages indicating error states
and conducting display processing on messages stored on the basis of an error
state; and a display section (6) for displaying a message for a user.
Therefore, a user's measure is displayed intelligibly while making a
distinction between an error of the receiving system on the network and an
error within a device.

---------- KWIC ---------

Detail Description Paragraph - DETX (29):
    [0077] The CTS indicates an ID of the command set. In the AV/C command set,
CTS ="0000". A ctype/response field indicates a function class of a command
when the packet is a command, and a processing result of a command when the
packet is a response. Commands are broadly divided into four kinds of
definition: (1) commands (CONTROL) for controlling the function from the
outside; (2) commands (STATUS) for inquiring about the state from the outside;
(3) commands for inquiring whether support of a control command is present,
from the outside (GENERAL INQUIRY (whether support of an opcode is present) and
SPECIFIC INQUIRY (whether supports of an opcode and operands are present)); and
(4) commands (NOTIFY) for requesting the notice of a state change to the
outside.

ABSTRACT:

An object of the present invention is to enable a control device to make an
information device operate properly even if there are a plurality of portions
to be controlled in the information device and a plurality of control devices.
When the control device selects the portion which it wants to control from
selection means provided by the information device thereto, the selected
information and identification information on the control device having
selected the portion to be controlled are transmitted to the information
device; the information device having received both of the information makes
identification information on the selected portion correspond to the
identification information on the control device and preserves both of the
identification information in a RAM as a control correspondence table. Each
time the control device selects the portion to be controlled, the selection,
the transmission, and the preservation are repeatedly performed. When the
information device receives a control request from the control device, the
information device controls, by referring to the control correspondence table
which is preserved, the portion corresponding to the identification information
of an issuer of the control request.

---------- KWIC ---------

Detail Description Paragraph - DETX (64):
    [0109] The "CTS" represents the ID of the command set. In case of the AV/C
command set, the CTS="0000". When the packet is a command, a "ctype/response"
field indicates the functional classification of that command and. When the
packet is a response, the "ctype/response" field indicates the processed
results of the relevant command. The commands are roughly classified into the
following four kinds of definitions. (1) commands for controlling the
functions from the outside (CONTROL), (2) commands for inquiring about the
relevant status from the outside (STATUS), (3) commands for inquiring from the
outside about the presence or absence of supporting the relevant control
command (GENERAL INQUIRY (the presence or absence of the for-use-for-support
opcode)) and (SPECIFIC INQUIRY (the presence or absence of supporting opcode
and operands)), and (4) commands for requesting to notify a change in the
status to be notified to the outside (NOTIFY).

ABSTRACT:

In an information processing system, processing in a network is significantly
reduced compared with conventional methods. Information is transmitted from an
information processing apparatus to an information receiving apparatus via a
transmission channel established between the information receiving apparatus
and the information processing apparatus. The information receiving apparatus
is able to easily acquire the information input to the information processing
apparatus, and thus it can further reduce processing in a network compared with
conventional methods.

---------- KWIC ---------

Detail Description Paragraph - DETX (30):
    [0065] The CTS field indicates the ID of a command set, wherein CTS="0000"
for the AV/C command set. The ctype/response field indicates the function
classification of a command when the packet is a command, and indicates the
results of command processing where the packet is a response. Commands are
roughly classified into four categories: (1) a command for controlling a
function from outside (CONTROL); (2) a command for inquiring as to the state
from the outside (STATUS); (3) a command for inquiring as to whether there is
support for a control command from the outside (GENERAL INQUIRY for inquiring
as to whether there is support for opcode, and SPECIFIC INQUIRY for inquiring
as to whether there is support for opcode and operands); and (4) a command for
requesting notification to the outside as to a change in state (NOTIFY).

NAME	CITY	STATE	COUNTRY
RULE-47			
Nakamura, Akira	Tokyo		JP
Sato, Tetsuya	Kanagawa		JP

ABSTRACT:

A system is designed to avoid problems that may occur if a physical layer
misunderstands the kind of signal it receives and erroneously changes its state
to a suspend state. When a node B receives an idle signal (i.e., a request
cancel signal) from a node A (child node), the node B changes its state to a
wait grant state where the node B waits to receive a grant signal from a node C
(parent node) while keeping the request signal to the node C. The node B
confirms that it has received the grant signal from the node C, and after that,
changes its state from the wait grant state to a wait idle state where the node
B transmits an idle signal to the node C, and waits until the grant signal from
the node C changes into an idle signal. The node B confirms that it has
received the idle signal from the node C, and after that, returns its state
from the wait idle state to an idle state. According to this procedure, the
node B is free from the situation in which it receives a grant signal from the
node C in the idle state. This arrangement prevents the node B from
misunderstanding that it has received a suspend signal and erroneously changing
its state to a suspend state.

--------- KWIC ---------

Detail Description Paragraph - DETX (40):
   [0120] The CTS field shows the command set ID, wherein CTS="0000" for the
AV/C command set. The ctype/response field indicates the function
classification of a command when the packet is a command, and indicates the
results of command processing when the packet is a response. Commands are
roughly classified into four categories as follows: (1) a command for
controlling a function from the outside (CONTROL); (2) a command for inquiring
as to the state from the outside (STATUS); (3) a command for inquiring as to
whether there is support for a control command from the outside (GENERAL
INQUIRY for inquiring as to whether there is support for opcode, and SPECIFIC
INQUIRY for inquiring as to whether there is support for opcode and operands);
and (4) a command for requesting notification to the outside as to a change in
state (NOTIFY).

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                         information

PUBLICATION-DATE: July 4, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
RULE-47			
Eubanks, Curtis	Tokyo		JP

US-CL-CURRENT: 348/22, 348/24

ABSTRACT:

According to the present invention, it is possible to extract a specified video
frame as a still image from a video stream recorded in a record medium of
another information processor. A sender information processor sends to a
receiver information processor connected to a network a command to extract and
generate a specified video frame of a video stream recorded in a record medium,
and then to send the video frame to the sender after converting the video frame
into still image data. The receiver extracts and generates a requested video
frame based on the command, and obtains still image data from the video frame.
Then, the receiver sends the still image data to the sender. In this case, the
receiver extracts and generates a video frame which corresponds to the video
frame specification information included in the command, so as to obtain still
image data which corresponds to the image format and size information included
in the command. The sender receives the still image data from the receiver.

---------- KWIC ---------

Detail Description Paragraph - DETX (34):
    [0075] The CTS field shows the command set ID, wherein CTS="0000" for the
AV/C command set. The ctype/response field shows the function classification
of the command when the packet is a command, and shows the result of command
processing when the packet is a response. Commands are roughly classified into
four categories as follows: (1) a command for controlling a function from the
outside (CONTROL); (2) a **command for inquiring** as to the state from the outside
(STATUS); (3) a **command for inquiring** as to whether there is support for a
control **command from the outside (GENERAL INQUIRY** for inquiring as to whether
there is support for **opcode,** and SPECIFIC INQUIRY for inquiring as to whether
there is support for **opcode** and operands); and (4) a command for requesting
notification to the outside as to a change in state (NOTIFY).

NAME	CITY	STATE	COUNTRY
RULE-47			
Kato , Junji	Tokyo		JP

ABSTRACT:

Required power consumption is reduced for communication between communication devices connected to a network by an IEEE 1394 bus line. When the network includes communication in a synchronous communication mode and communication in an asynchronous communication mode, a power supply for a communication process in the synchronous communication mode is controlled independently of a power supply for executing a communication process in the asynchronous communication mode. Similarly, the power supply for executing the communication process in the asynchronous communication mode is controlled independently of the power supply for executing the communication process in the synchronous communication mode.

---------- KWIC ---------

Detail Description Paragraph - DETX (71):
   [0111] The CTS represents the ID of a command set, and is satisfied with CTS = "0000" in the AV/C command set. The ctype/response field represents a function classification when the packet is a command, and represents a process result of the command when the packet is a response. Commands are roughly classified into four types, that is, (1) a command (CONTROL) for controlling a function from the outside, (2) a command (STATUS) for inquiring about a state from the outside, (3) a command (GENERAL INQUIRY (the presence/absence of support of opcode) and SPECIFIC INQUIRY (the presence/absence of support of opcode and operands), and (4) a command (NOTIFY) for requiring notification of a change in state to the outside.